



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/305,815 05/04/99 CLARK

T 04860.P2297

EXAMINER

TM02/1002

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LEFKOWITZ, S

ART UNIT

PAPER NUMBER

2181
DATE MAILED:

10/02/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary	Applicant N . 09/305,815	Applicant(s) CLARK, THOMAS C.	
	Examiner Sumati L. Fkowitz	Art Unit 2181	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 May 1999.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-26 are pending.

Specification

2. The abstract of the disclosure is objected to because
 - it fails to mention that two of the changes are connection and disconnection of a USB device
 - on line 3, "USB" should read –Universal Serial Bus (USB)--

Correction is required. See MPEP § 608.01(b).

Claim Objections

3. Claim 21 is objected to because of the following informalities:
 - on line 1, "USB" should read –Universal Serial Bus (USB)--

Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-6, 8-11, 12-14, and 16-19 are rejected under 35 U.S.C. 102(b) as being

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anticipated by Seymour, 5,109,486.

As to claims 1-6, 8-11, 12-14, and 16-19, Seymour discloses a method of notifying clients of a change in a system comprising a client requesting notification of the change in the system, detecting the change in the system, and notifying the client requesting notification that the change in the system occurred, maintaining a list of requests for notification, the client terminating the request for notification, and removing a request corresponding to the client from the list of requests for notification, the change in the system is connection of a device, the change in the system is disconnection of a device (note abstract, Figures 10-14, column 4, lines 40-54, column 9, lines 44-57, column 10, lines 3-23, column 11, line 26- column 12, line 2, column 12, line 48 – column 13, line 3, column 15, lines 3-37).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 7, 15, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seymour, 5,109,486 in view of Sandage, 5,537,597.

Seymour fails to disclose the client supplying a callback routine and executing the callback routine to notify the client of a change.

Sandage discloses a client callback routine for notifying the client of a change in system

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configuration (note abstract, column 2, lines 9-33, column 8, lines 1-4).

It would have been obvious to one of ordinary skill in the art at the time of the invention to employ a callback routine to notify the client of a change in the system, so as to relieve the client of the burden of inquiring about whether or not a change has occurred.

8. Claims 21-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seymour, 5,109,486.

As to claims 21-26, the claimed elements have already been discussed with respect to claims 1-6, 8-11, 12-14, and 16-19 above, with the exception of detecting a change in a USB system and finding and deactivating a driver corresponding to a connected and disconnected, respectively, device.

Examiner takes Official Notice that USB is well known in the art of serial peripheral bus systems.

It would have been obvious to one of ordinary skill in the art at the time of the invention to employ a USB in the system of Seymour so as to be compatible with the most recent technological advancement in serial buses and so as to take advantage of the many benefits provided by USB, including high speed, low cost and hot-pluggability.

Examiner takes Official Notice that enabling and disabling a driver in response to connection or disconnection of a device is well known in the art of systems, such as USB, comprising removably coupled devices.

It would have been obvious to one of ordinary skill in the art at the time of the invention to enable and disable a driver in response to connection or disconnection of a device in the system of Seymour so as to enhance the automatic configuration capabilities of the system

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and minimize the involvement of the user in configuration, thereby enhancing the convenience of the system.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to Applicant's disclosure, as the art discloses notification of changes in systems.

US Patents:	6,266,716	Wilson et al.	6,163,795	Kikinis
	6,055,595	Tachibana et al.	6,038,625	Ogino et al.
	5,826,253	Bredenberg	5,133,075	Risch

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sumati Lefkowitz whose telephone number is 703-308-7790. The examiner can normally be reached on Monday-Friday, from 6:45 to 3:15.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert W. Beausoliel can be reached at 703-305-9713.

The fax phone numbers for the organization where this application or proceeding is assigned are as follows:

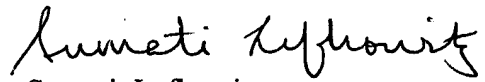
703-746-7238	for After Final communications
703-746-7239	for Official communications
703-746-7240	for Unofficial/Draft communications, Status Inquiries

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

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A handwritten signature in black ink, appearing to read "Sumati Lefkowitz". The signature is fluid and cursive, with the first name "Sumati" and last name "Lefkowitz" clearly distinguishable.

Sumati Lefkowitz
Primary Examiner
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SL
September 29, 2001